SONY
make.believe

Never miss the moment

α77

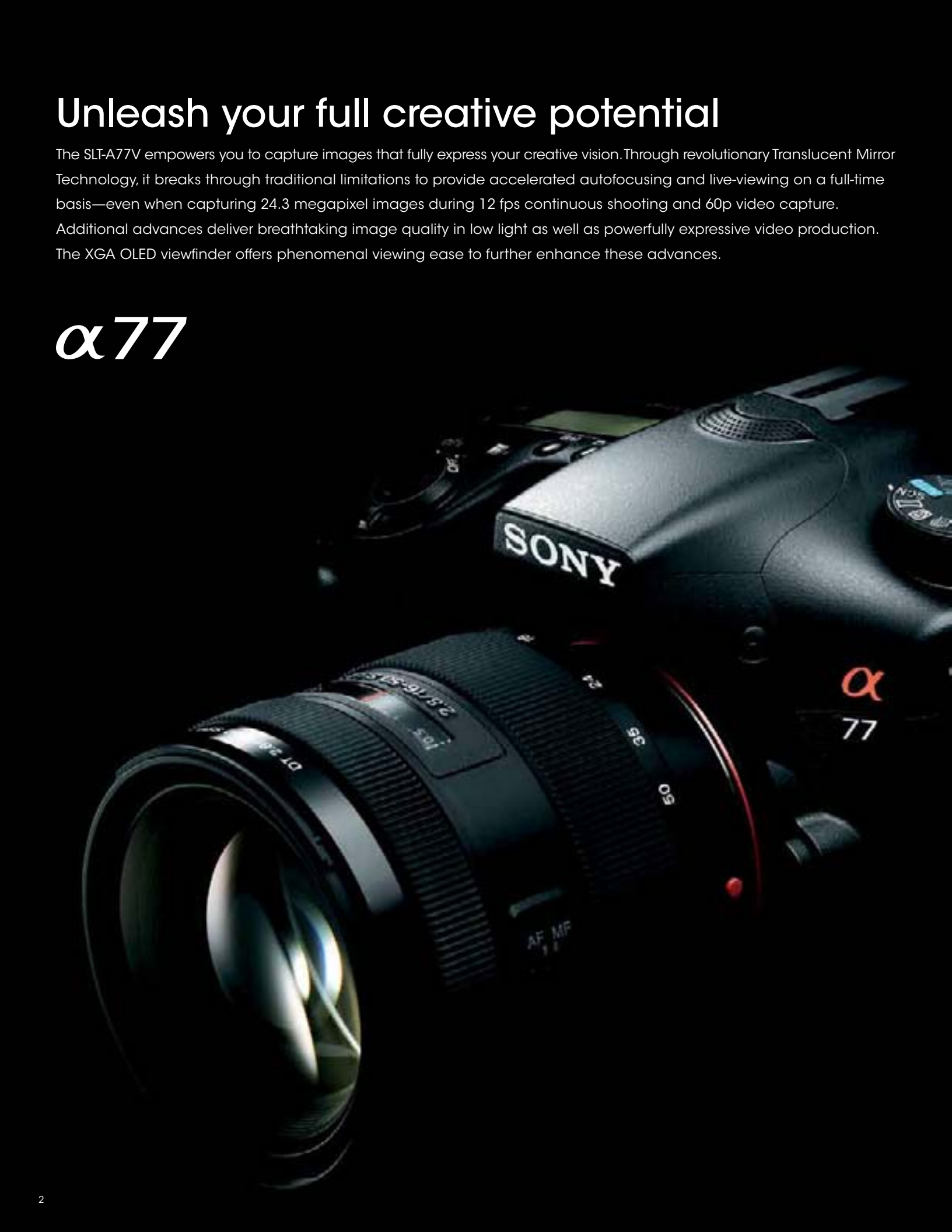
Translucent
Mirror Technology™

Full-time Continuous AF

Unleash your full creative potential

The SLT-A77V empowers you to capture images that fully express your creative vision. Through revolutionary Translucent Mirror Technology, it breaks through traditional limitations to provide accelerated autofocusing and live-viewing on a full-time basis—even when capturing 24.3 megapixel images during 12 fps continuous shooting and 60p video capture. Additional advances deliver breathtaking image quality in low light as well as powerfully expressive video production. The XGA OLED viewfinder offers phenomenal viewing ease to further enhance these advances.

α77



- Ultra-high resolution 24.3 megapixel Exmor™ APS HD CMOS sensor
- Continuous shooting up to 12 fps with Full-time Continuous AF
- AVCHD™ Ver. 2.0 (Progressive) Full HD Movie at 60p
- World's first* XGA OLED Tru-Finder™ viewfinder
- Flexible 3-way tilt LCD monitor
- 1/8000 sec. shutter speed and approx. 150,000 shutter release durability

* Among interchangeable-lens cameras with an APS-C sensor as of August 2011.

70-400mm F4-5.6 G SSM (SAL70400G), 1/2000 sec., F8.0, ISO 1250, Auto white balance

DT 30mm F2.8 Macro SAM (SAL30M28), 1/200 sec., F7.1, ISO 100, Daylight white balance

DT 16-50mm F2.8 SSM (SAL1650), 1/250 sec., F5.6, ISO 100, Manual white balance (4500K)

Accelerated response on a full-time basis

Translucent Mirror Technology

Sony Translucent Mirror Technology revolutionizes interchangeable-lens photography by enabling simultaneous focusing and image capturing on a full-time basis. Unlike competing cameras that swing a mirror to either direct light toward the AF sensor or the image sensor–one at a time, the α77 continuously directs light to both sensors simultaneously via a stationary translucent mirror. This breakthrough enables leading continuous shooting speed, accelerated full-time continuous phase-detection autofocusing—even while shooting HD movies—and smooth uninterrupted live-viewing on the finder and rear monitor during single shot, continuous and movie shooting. Quite simply, Translucent Mirror Technology significantly improves overall performance and leaves the competition behind.

Full-time Continuous AF

Accelerated full-time continuous phase-detection autofocusing keeps your subject sharply focused at all times. Even at maximum continuous shooting speed and during live-view movie shooting—thanks to revolutionary Translucent Mirror Technology—you can clearly capture sports action and fleeting facial expressions without resorting to manual focusing. The supreme speed and precision of phase-detection autofocusing is faster and more precise than the contrast-detection AF systems employed by competing cameras. It lets you effortlessly capture dramatic moments in all types of situations with professional-looking results.

12 fps continuous shooting (in Continuous Advance Priority AE mode)

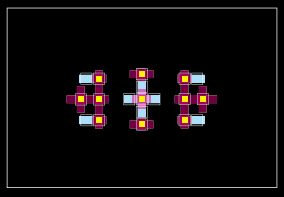
Every second, you can capture up to 12 images with clarity and precision at full 24.3 megapixel resolution. Moreover, you can enjoy the expressive power and flexibility of interchangeable lenses without slowing down performance. As with full-time autofocusing, this extraordinary response is made possible by innovative Sony Translucent Mirror Technology.

Notes:
Continuous shooting speed may be slower depending on shooting conditions. In Continuous Priority AE Mode, the aperture is fixed at F3.5 or the maximum aperture of the lens, whichever is smaller. Continuous shooting speed (fps) lowers when high ISO NR function is On.

Approximately 0.05 second minimum release time lag

Accelerated shutter response lets you capture decisive moments with confidence. An innovative electronic front curtain shutter in the image sensor slashes shutter release time lag to a class-leading 0.05 second* and produces less shutter noise and vibration than a mechanical front curtain shutter. If desired, a mechanical front curtain shutter can be activated through the MENU.

* Speed may vary depending on shooting conditions and memory card in use.



70-400mm F4-5.6 G SSM (SAL70400G), Continuous Advance Priority AE, 1/4000 sec., F5.6, ISO 1250, Auto white balance

19-point AF system with 11 cross sensors

The phase-detection autofocusing system spreads 19 AF sensors over a wide AF area to increase your framing freedom and keep moving subjects in focus. It includes 11 cross sensors that deliver more accurate and reliable tracking than sensors with only vertical or horizontal detection can achieve. Additionally, the AF system improves autofocusing performance in low light conditions to ensure precision focusing wherever and whenever you shoot. Depending on your needs, you can select one of four AF area modes: Wide (all 19 sensors), Spot (central sensor), Local (any selected sensor), or Zone (right, center, or left zone). Four AF modes are also selectable from the focus mode dial: AF-A (Auto), AF-C (Continuous), AF-S (Single shot) and Manual. In addition to AF (Auto Focus), the camera also provides DMF (Direct Manual Focus) and Manual focus modes.

Easy operation even during manual focusing

The camera quickly and comfortably meets your needs during both auto and manual focusing. Prompt switching between autofocusing and manual focusing is as simple as pressing the AF/MF button. Manual focusing is aided by a Focus Magnifier function that provides up to 11.7x magnification of the image at the press of a button, and Direct Manual Focus (DMF) settings are selectable during autofocusing. An AF Micro Adjustment function also allows minute manual adjustment of focusing distance, along with registration of up to 30 sets of lens adjustment settings.

Object Tracking Focus

Various advances come together in the α77 to enable swift, accurate tracking of fast-moving subjects. Once you designate your subject on the viewfinder or rear LCD, Tracking Focus utilizes powerful predictive focusing algorithms and Sony's original subject recognition technologies to track your subject's every move with speed and precision. This performance is supported by blazing-fast BIONZ® image processing and 19 autofocusing points that are spread over a wide area to better keep moving subjects in focus.

Breathtaking image quality in any lighting

70-400mm F4-5.6 G SSM (SAL70400G), 1/15 sec., F5.6, ISO 200, Manual white balance (3700K)

24.3 megapixel Exmor™ APS HD CMOS sensor

Stunning images brimming with detail are yours at an astounding 24.3 megapixel resolution, thanks to Sony's proprietary Exmor APS HD CMOS sensor. This ultra-high resolution is complemented by an extra-large sensor size that raises sensitivity in low-light conditions and strengthens background defocusing effects. So you can add depth and drama to virtually any scene. Dual noise reduction also significantly reduces noise during analog and digital signal conversion to ensure smooth, crystal-clear reproduction even in low-light conditions.

Exmor™ APS HD CMOS

Dramatically improved BIONZ® image processing engine

Sony's lightning-fast BIONZ processor employs powerful algorithms to generate beautiful images from RAW data captured by the Exmor CMOS image sensor. Fully optimized to match the characteristics of the sensor, it delivers extremely accurate color and rich tonal gradations throughout the entire dynamic range. Even during ultra-high-speed continuous shooting and Full HD movie shooting, it effortlessly handles the vast information generated by the 24.3 megapixel CMOS sensor as well as other intensive tasks such as advanced digital compositing. Moreover, RAW image noise reduction complements dual noise reduction in the sensor to deliver images of superb quality with extremely low noise.

BIONZ

ISO 1600

ISO 6400

ISO 12800

High sensitivity with ISO 100–16000 (expandable to ISO 50)

Master virtually any lighting conditions with extremely high ISO sensitivity and wide-ranging settings from 50 (expanded) to 16000—a range of eight 1/3 steps. Capture the mood of a candlelit wedding ceremony with a high sensitivity setting; the flow of a river with a low sensitivity setting and slow shutter speed; or athletes competing indoors with a high sensitivity setting and high shutter speed—all with extremely high quality and low noise courtesy of Sony's ultra-sensitive Exmor APS HD CMOS sensor and advanced BIONZ image processor. In regular shooting conditions, you can take full advantage of an Auto ISO mode that automatically chooses the optimal ISO setting between ISO 100 and 1600 or between any available range you choose to customize (from 100 to 12800) for creative results.

SteadyShot INSIDE™ image stabilization

Advanced image stabilization lets you enjoy handheld shooting with minimal camera-shake blur. Since SteadyShot INSIDE utilizes a sensor-shift image stabilizer within the camera itself. It provides effective image stabilization for any A-mount system lens from wide-angle to telephoto. It also lets you capture sharp images at shutter speeds up to 2.5 to 4.5 steps slower than otherwise possible without a tripod or flash, as well as take advantage of vastly increased photo opportunities.

Lens shading and aberration compensation

To ensure optimal shooting results, the α77 automatically compensates for the shading and aberration characteristics of the particular lens you mount. This includes vignetting (peripheral shading), lateral chromatic aberration and optical distortion, which can each be manually activated or deactivated as desired.

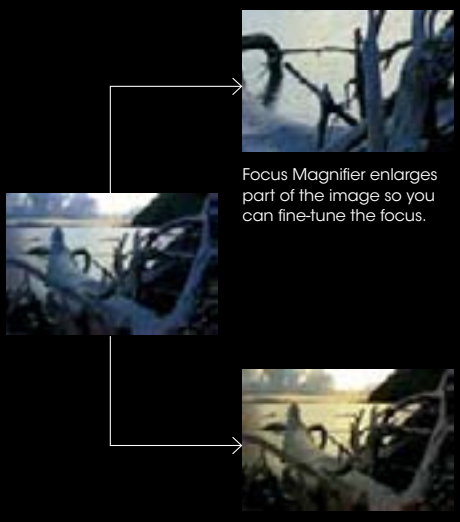
XGA OLED viewfinder for supreme comfort and ease

XGA OLED
Tru-Finder

Unrivaled resolution, contrast and response

Camera technology takes a major leap forward with the introduction of the world's first* OLED viewfinder. This extraordinary XGA OLED Tru-Finder™ EVF displays your scene with incredible contrast, clarity and color accuracy. Since Translucent Mirror Technology creates the viewfinder image directly from the image sensor, you can view exactly what will appear in your photo, including defocusing effects that faithfully reflect your aperture settings. You can therefore perfect the background as well as your main subject when composing photos. Moreover, viewing is supremely easy in any type of lighting—a distinct advantage over optical viewfinders that are hard to view in the dark and LCD monitors that are difficult to view in bright sunlight. This viewing ease makes it much easier to concentrate on the scene.

The backlight-free design of OLED technology delivers incredible contrast—up to 10 times higher than conventional electronic viewfinders—that broadens the dynamic range. Accelerated OLED response also virtually eliminates both motion blur and residual images when tracking moving objects or displaying recorded movies. Slim unit dimensions gave Sony extra freedom to achieve advances like a wide 33.3° viewing angle, high 27 mm eye-point and 100% frame coverage. A high-precision 2,369K dot resolution allows fine-adjustment of focus via Focus Magnifier, which enlarges part of the image so you can fine-tune the focus and then zoom out to capture the shot.



Focus Magnifier enlarges part of the image so you can fine-tune the focus.

The viewfinder can display the effects of your aperture, exposure, WB and other settings.

Translucent Mirror Technology™

Full-time Continuous AF

Variable information display

The OLED viewfinder clearly displays detailed shooting information at high XGA resolution for quick and easy reading. You can display the data in your choice of five display modes (Shooting Data, Graphic, Digital Level Gauge, Histogram or Simple Display) by pressing the DISP button. The Digital Level Gauge indicates whether the camera is level in the horizontal and front-back directions. The Histogram displays the luminance distribution of pixels in the image, which can be adjusted through exposure compensation. And the Graphic Display shows the shutter speed and aperture value as graphs, while also clearly illustrating the exposure.

Shooting Data Display

Graphic Display

Digital Level Gauge Display

Histogram Display

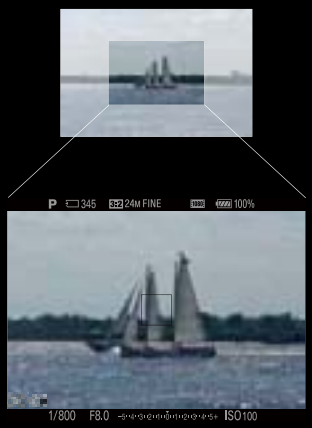
Simple Display

Do it all from the viewfinder

The viewfinder is so informative and easy to view that every step in the photographic process—including setting up shooting parameters and previewing their effects in real-time, framing your subject and fine-tuning the focus with the Enlargement feature, shooting photos and movies, and checking final results—can easily be handled from start to finish without removing your eye from the viewfinder. This is true even in bright outdoor lighting and during sports, portrait and macro photography. So you can fully concentrate on capturing spectacular images.

Smart Teleconverter provides a clear and precise enlarged image

This convenient alternative to zooming makes it easy to capture distant subjects while viewing the finder. Press the Smart Teleconverter button once to enjoy the equivalent of 1.4x magnification or twice for 2x magnification. When you're pleased with the composition displayed on the high-resolution XGA OLED, press the shutter button to record the image at a minimum 12 megapixel resolution.



High visibility in bright and dark scenes

Since the viewfinder image is just as dim or bright as the actual scene, viewing is remarkably easy in any type of lighting—a genuine advantage over optical viewfinders that are difficult to view in dark settings and rear LCD monitors that are hard to view in bright settings.

Three grid displays

Whenever you desire assistance aligning the horizon or achieving a balanced composition, you can overlay one of three types of grids in the viewfinder. These include a 3x3 grid that follows the rule of thirds, a 4x4 grid that includes two 45-degree lines passing through the center, and a 6x4 grid that simplifies the alignment of multiple visual elements.

Powerfully expressive movie production

Large image sensor

Cinema-like creative expression is yours to enjoy thanks to large APS HD CMOS sensor. This expanded sensor area enables beautiful background defocusing effects for a cinematic sense of depth and drama. It also contributes to extremely high recording sensitivity that empowers you to effectively shoot in very dim lighting. Furthermore, when teamed with manual focus, the sensor lets you take full advantage of P/A/S/M modes to manually adjust exposure and achieve desired brightness and dynamism.

Quick AF Full HD Movie

Most interchangeable lens cameras employ standard contrast-detection autofocusing when shooting movies. But the α77 delivers the superior speed and precision of full-time continuous phase-detection autofocusing, even during HD movie shooting at 60p—thanks to the breakthrough advantages of Sony Translucent Mirror Technology. This newly enhanced Quick AF Full HD Movie feature also makes a big difference when focusing on fast-moving subjects. You can shoot movies and enjoy wider-ranging creative possibilities than ever before.

AVCHD™ Ver. 2.0 (Progressive) Full HD 60p movies

For the ultimate in smooth movie playback, you can capture Full HD movies at 60 fps using the AVCHD Ver. 2.0 (Progressive) format. This powerful capability is made possible by the large APS HD CMOS sensor, which captures beautiful 1920 x 1080 pixel movie footage at an accelerated rate: The same resolution and rate as HDTV broadcasts[1]. Moreover, Translucent Mirror Technology enables Full-time Continuous AF during movie creation for fast, high-precision focusing and precise tracking of moving subjects.

1 Records in 29 minute segments.

24p cinematic expression

Hollywood films are traditionally captured at 24 fps, creating a subtle but unmistakable look that movie lovers everywhere associate with the cinema. Simply by capturing your movies at the same frame rate, in the progressive 24p format, you can recreate this look and endow your movies with an added sense of quality and drama.

Heightened creative potential

You can use Creative Styles and Picture Effect to exaggerate the mood or completely transform the look of your movies. For example, Toy Camera creates a rough, amateurish look while Posterization makes a bold statement with high contrast and vivid colors*.

* Not all Picture Effects can be selected for movie recording.

Interchangeable lens freedom

Interchangeable lenses greatly expand your moviemaking freedom. Like a Hollywood director, you can creatively use whatever lens most effectively brings out the moment. Whether fisheye, super wide-angle, telephoto, macro, fixed focal length or zoom lens, the α77 lets you take advantage of almost any α system A-mount lens ever produced. And because you can enjoy the benefits of high-speed, high-precision, phase-detection AF with virtually all of these lenses, you can exercise your cinematic creativity without worrying about difficult focusing problems.

One-touch movie access

With one press of the Movie button, the α77 is ready to roll. The camera immediately enters movie recording mode regardless of whether you were shooting photographs continuously, in single-frame mode or not at all. It's the quick and easy way to capture every moviemaking opportunity.

Full manual movie shooting

Full manual operation gives you the freedom and power to realize your creative vision. Using manual focus and P/A/S/M modes (Program, Aperture Priority, Shutter Priority and Manual), you can flexibly adjust background blur and manually control exposure to achieve desired brightness and dynamism. On-screen prompts provide assistance to make full manual operation quick, easy and comfortable.

Estimated continuous movie shooting time

Model	Ambient Tenperature	Shooting time
α77	68° F / 20° C	Approx. 29 min.
	86° F / 30° C	Approx. 29 min.
	104° F / 40° C	Approx. 13 min.

- HD movie shooting can cause the temperature of internal components to rise, as can high ambient temperatures. Increased internal temperatures can result in recording times shorter than the estimates shown.

Audio noise reduction

Exceptional movie quality is complemented by outstanding audio quality with minimal noise. This audio recording quality is made possible by a high-performance stereo microphone on the mirror housing and advanced noise reduction that effectively suppresses AF lens drive noise via newly developed NR algorithm.

Unrivaled comfort and shooting flexibility

Convenient Xtra Fine LCD™ display with 3-way tilting

Whether shooting horizontally or vertically, you can easily tilt and swivel the LCD monitor to the most natural possible viewing angle. Even when using a tripod, the 3-way tilting design enables extra-flexible adjustment that easily supports everything from extremely low to extremely high camera shooting angles. The 3" Xtra Fine LCD display with crisp 921,600 dot resolution features technology that offers outstanding performance in almost any kind of lighting condition. The LCD's design fills the gap between the protective outer glass and underlying LCD with resin to significantly reduce surface reflections, improve visibility from wide viewing angles, maintain high contrast and more accurately reproduce deep blacks. Reflections are further lowered by a special anti-reflective coating and multi-coating. Whenever challenging shooting environments require extra-clear viewing and unrivaled flexibility, this innovative LCD technology will set you free.

SLT-A77V's 3.0" display
Reflections are eliminated

Generic LCD monitor
with unwanted reflections

Quick-access controls

You can easily operate the camera while keeping your eyes on the scene because the controls are specially designed for swift tactile recognition. Frequently used controls are placed within natural reach of your fingers and are clearly differentiated in size and height. Main buttons are placed within easy reach of your thumb, and dials in the front and rear of the camera enable comfortable adjustment of major and minor parameters, respectively.

LCD data display

Confirming main camera settings is always quick and easy, thanks to the LCD data display favored by enthusiasts. Simply glance at the top-mounted display to confirm shutter speed, aperture, ISO value and more. Even in dark environments, the data is easy to read thanks to large LCD dimensions and cinnabar backlighting. Moreover, the top-mounted position means you can naturally shift your eyes from the scene to glance at the display without moving the camera and having to readjust framing.

Customizable buttons

To enhance shooting convenience, you can customize three buttons to satisfy personal preference, provide quick access to the most frequently used functions, or better match particular usage conditions. The AEL, ISO, and AF/MF Buttons can be reassigned to activate any of 24 assignable functions, including Exposure Compensation, Drive Mode, Flash Mode, Focus Area, Face Detection, Smile Shutter, ISO Sensitivity and Metering Mode.

Memory function

When you find an ideal combination of camera settings for a particular shooting situation, you can register them as a set in memory. Then the next time that situation arises, you can easily recall and apply the settings to save time by turning the mode dial to the MR position. Up to three sets of comprehensive shooting settings can be saved.

Comfortable VG-C77AM vertical grip

Operation is extremely comfortable during vertical framing, thanks to the optional vertical grip and flexibly adjustable LCD display. Optimized contours fit your hand comfortably and contribute to a steady grip that minimizes accidental slips. The back of the grip is wide enough to firmly support your thumb, and essential controls are built in, including a convenient shutter button. The grip can also house one or two NP-FM500H rechargeable battery packs (sold separately) to approximately double battery life. Dust and moisture resistance is the same high level as the camera body.

Shot Result Preview

Before shooting, you can preview how your photo will look with major settings applied. The Shot Result Preview function shows not only the effects of your selected aperture, but also the effects of the selected shutter speed and Dynamic Range Optimizer (DRO) settings in the viewfinder and LCD display. So you can confirm the depth of field, motion blur and dynamic range with ease. It produces more dynamic results than the conventional optical preview function, which only shows the effects of the aperture setting. From the MENU, you can choose whether pressing the Preview button near the right bottom of the camera activates the conventional optical Depth of Field preview function or Shot Result Preview.

Robust craftsmanship for carefree shooting

Body
α77

+

Flash
HVL-F43AM

+

Lens
DT 16-50mm F2.8 SSM

+

Vertical Grip
VG-C77AM

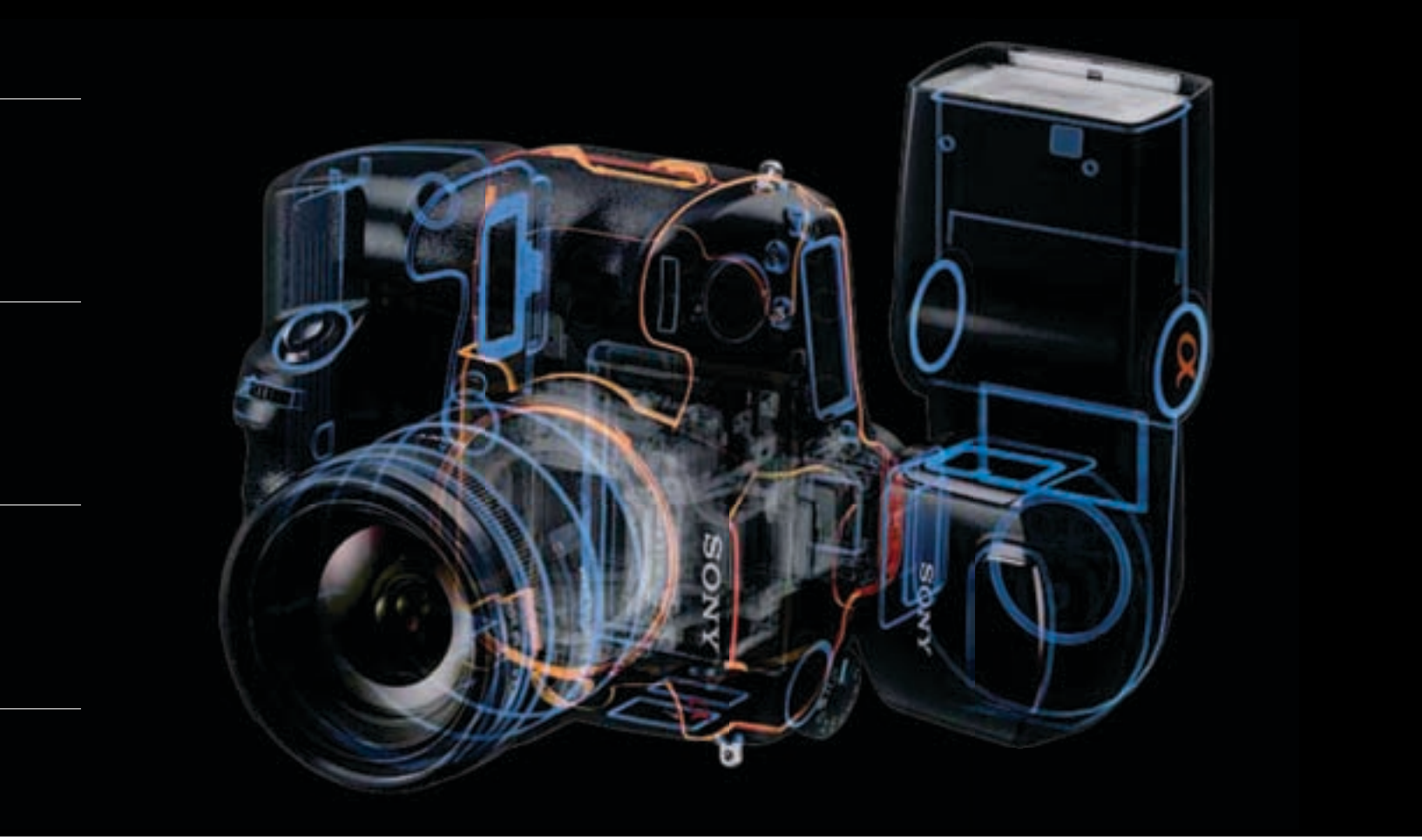
Dust and moisture resistant

Comprehensive dust and moisture resistance measures are applied to the α77 and select accessories to achieve extremely high, reliability when used together. The camera itself is sealed around the main buttons and dials to help prevent moisture and dust from entering the body during tough usage. Openings such as the card slot, battery compartment and terminals are also protected by a double-layered structure. When using the DT 16-50mm F2.8 SSM standard zoom lens, optional HVL-F43AM flash unit, optional VG-C77AM vertical grip or other accessories, this same high-level resistance to dust and moisture is maintained. This lens incorporates effective dust and moisture resistance measures including sealing of all susceptible components. Main joints of the powerful optional flash unit, with Quick Shift Bounce design, are refined and sealed to ensure effective resistance to dust and moisture. Various areas of the vertical grip are also sealed to raise dust and moisture resistance.

Note:
- Dust and moisture resistance does not imply dust/moisture proof performance.

Robust magnesium alloy body

When the going gets tough, you can depend on the rugged α77. Its lightweight body offers the protective external shielding of high-intensity magnesium front and rear panels. A grip and front cover manufactured through advanced casting technology further enhance body rigidity. Through an optimal combination of engineered plastic, aluminum alloy and stainless steel in the chassis, a high degree of structural integrity, light weight and long-lasting dependability has been achieved.



150,000 shutter release durability

Extended photographic pleasure is assured by a remarkably durable shutter unit. This newly developed unit has been proven to endure approximately up to 150,000 shutter releases, a figure that rivals high-end professional cameras. While rugged enough to withstand the demands of 12 fps continuous shooting, this high-precision shutter unit also supports everything from bulb shooting to ultra-fast 1/8000 sec. shutter speeds.

Anti-dust Technology/System

Advanced dust resistance helps keep your photos blemish-free. If dust particles enter the camera when the lens is being changed, two levels of protection safeguard the image sensor. First, a special static-free coating on the low-pass filter covering the sensor helps prevent dust from adhering. Second, an anti-dust mechanism vibrates the filter at high speed every time the camera is switched off to dislodge any dust particles that settled on its surface.

High-density battery

The InfoLITHIUM® NP-FM500H battery that comes with the α77 provides plenty of power for extended worry-free shooting. Compact and lightweight, it recharges quickly and packs enough power for approximately up to 530 shots*. Precise indication of remaining power is displayed through a 5-level battery icon and a number that precisely represents the percentage of power remaining in 1% increments. When the camera is fitted with an optional VG-C77AM vertical grip housing extra batteries, up to 1,000 shots can be taken between recharges.

* In LCD monitor mode (CIPA standard) Actual performance varies based on settings, environmental conditions and usage. Battery capacity decreases over time and use.

Extraordinary digital imaging capabilities

HDR Painting

Soft Focus

Partial Color (Red)

Partial Color

Miniature

Rich-tone Monochrome

Toy Camera

Enhanced Picture Effect

Express your creativity with Picture Effect. These innovative effects transform your still images and movies into stunning works of art by adjusting camera parameters and applying advanced image processing techniques like compositing within the camera. Depending on your scene and creative intentions, you can choose from 11 customizable modes (with 15 effects) including HDR Painting, Rich Tone Monochrome, Soft Focus and a Miniature mode that makes your subject look like a miniature model.

Notes:
- Picture Effect is not available in RAW, RAW+JPG, or Continuous Advance Priority AE modes
- Not all Picture Effect modes are available while recording movies

Auto HDR

High dynamic range (HDR) photography previously required considerable expertise and effort. But this amazing Auto HDR function lets you capture the expanded detail of HDR photos automatically. With one press, the α77 instantly records three frames at different exposures and composites the best details from each—in the highlights, mid-tones and shadows—to create a single image with wider dynamic range than any single exposure could possibly capture. The resulting HDR image is simply breathtaking in its detail, rich color and impact. Moreover, it's ideal for any post processing you may want to employ. Since advanced algorithms automatically detect and correct any misalignment between the three exposures, it's even possible to capture these remarkable images without using a tripod. For enhanced creative control over a wide range of lighting situations, you can set the Auto HDR exposure range to cover six steps, from 1 EV to 6 EV.

Highlight details captured

Mid-tone details captured

Shadow details captured

Final image with optimum shadow/highlight detail

Sweep Panorama™ Mode / 3D Sweep Panorama Mode

Capture every detail of breathtaking scenes with a single sweep of the camera. The α77 automatically records a sequence of photos and seamlessly stitches them together to create a single spectacular image. Choose 3D Sweep Panorama mode to produce more dynamic realism when viewed on a compatible 3D HDTV*.

* Requires HDMI® cable (at least 10.2 Gbps) and 3D glasses sold separately.

3D Sweep Panorama

(Yellow)

Partial Color (Blue)

Partial Color (Green)

Pop Color

Soft High-key

High Contrast Monochrome

Posterization (Color)

Posterization (B/W)

Retro Photo

Multi Frame NR

The Multi Frame NR mode is super effective at suppressing noise. It allows you to clearly capture scenes that would normally be challenging even for seasoned professionals. For example, candle-lit environments can be vividly captured without using a tripod or flash. Like Hand-held Twilight, it takes six photos and expertly composites them to suppress noise and blur while raising contrast and detail. This intelligent mode is compatible with any ISO setting and functions in all P/A/S/M modes, enabling noise suppression and improved image quality in any type of lighting. Through ISO expansion, it can even achieve ultra-high sensitivity equivalent to ISO 25600.

Hand-held Twilight

When lighting is low, Hand-held Twilight mode enables clear flash-free photography without using a tripod. This handy Scene Selection mode shoots a burst of six images at different settings, including an ISO setting as high as necessary for the scene and a shutter speed appropriate for handheld shooting. It then employs proprietary Sony digital compositing technology and noise reduction to align and combine the images and create a single frame with significantly suppressed blur and noise. The feature even effectively compensates for camera and subject movement, making it easy to take beautiful evening shots with the camera in your hand.

Creative Style

Creative Style settings free you to swiftly adjust the look of your photos and movies. Depending on the scene and your creative intentions, simply select any of 13 settings (Standard, Vivid, Neutral, Clear, Portrait, Landscape, etc.) and the camera will adjust color and other image parameters accordingly. You can also fine-tune contrast, saturation* and sharpness to suit your personal preference and achieve just the right finishing touch.

* Not available when B/W mode is selected.

GPS capability

The built-in GPS (Global Positioning System) feature can tag your photographs with data that indicates where and when they were taken. When you view tagged photographs on a Windows® PC installed with bundled PMB software, or on a connected BRAVIA® TV with the Photo Map function, the photos can be displayed on a map to indicate where they were taken.

Dynamic Range Optimizer (DRO)

If the subject's face is dark in a backlit situation, DRO uses proprietary Sony technology to recover details hidden in the shadows and deliver a naturally bright image. DRO can even be used during continuous shooting and provides five user-selectable levels of compensation.

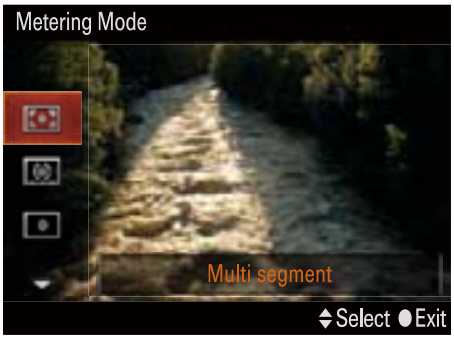
DRO on (Lv.5)

DRO off

An abundance of smart, versatile features

1200-zone Evaluative Metering

High-precision metering ensures balanced exposures in wide-ranging lighting conditions. This precision is made possible by the extremely high resolution of an advanced evaluative metering sensor with 1200 zones. The sensor accurately meters the light and color of image data transmitted directly from the image sensor and can also recognize wide-ranging subjects and shooting situations. The amazing density of this 1200-zone meter contributes to both highly precise metering and accurate subject recognition. The Fn (Function) button lets you choose between Multi segment, Center weighted and Spot metering modes.



Multi segment metering

Exposure mode

Selecting an exposure mode is as simple as rotating a dial. Conveniently located on top of the α77, the clearly labeled mode dial provides quick and direct access to Program Auto, Aperture priority, Shutter-speed priority and Manual exposure modes, as well as a fully-automatic Auto mode and 8 Scene Selection modes (Portrait, Sports Action, Macro, Landscape, Sunset, Night Scene, Hand-held Twilight and Night Portrait) that apply optimized AF, drive mode, exposure, brightness, contrast and other settings appropriate to each type of scene.

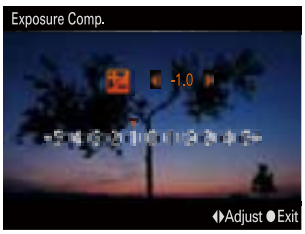
Two-axis White Balance

In addition to automatic white balance and a full range of white balance presets, the α77 provides a two-axis White Balance mode for even finer white balance adjustment. This mode lets you adjust white balance in the amber-blue and green-magenta directions to achieve more true-to-life color under almost any kind of light source.

Auto white balance

Exposure compensation and bracketing

Getting the exposure just right is easy with the α77. You can use Exposure Compensation to increase or decrease the exposure in 1/3 or 1/2 stop increments between -5 and +5 EV. Or use Auto Exposure Bracketing (AEB) to automatically record three or five images at different exposure values (standard, higher and lower exposure values), compare the results and choose the best one. AEB lets you choose whether to vary the exposure values by 0.3 or 0.7 EV. Both Exposure Compensation and AEB clearly display results on the screen for easy checking and help ensure that at least one of your shots is expertly exposed.

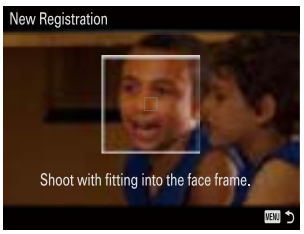


AUTO+ (Auto Advanced) mode

This highly convenient mode adjusts camera settings automatically. So you can simply point, shoot and let the camera handle everything else. The AUTO+ mode automatically analyzes shooting conditions and intelligently adjusts everything from aperture and shutter speed to ISO sensitivity and white balance on the fly. When you shoot fast moving subjects, Continuous Advance Priority AE automatically activates to keep pace. When scenes are high in contrast but lack detail in shadows or highlights, Auto HDR automatically kicks in to bring out more of the details. Activated settings and features are also displayed on screen so you can see what features are best suited to each kind of scene. With the α77, it's easy to take advantage of leading-edge Sony digital technology.

Face Detection and Face Registration

Capture people beautifully with the α77, thanks to advanced Face Detection technology that instantly detects up to eight faces and optimizes shooting parameters to ensure accurate focus and skin tones even when recording movies. Smile Shutter™ technology can automatically release the shutter when subjects smile and offers three sensitivity levels as well as a smile level indicator that is displayed when the mode is active. A Face Registration function also lets you register up to eight specific individuals so the camera prioritizes them when detecting faces. This feature not only works together with Smile Shutter and Face Detection, but also supports Tracking Focus.



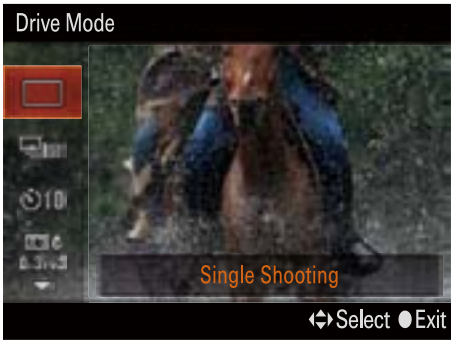
Notes:
Effectiveness varies according to camera settings, subject and shooting situation. Face detection is disabled during movie shooting.

Built-in flash with wide 16 mm coverage

When the lighting is so dim that supplemental lighting becomes necessary, this powerful built-in flash unit automatically pops up to amply illuminate your scene. This flash unit offers a versatile range of modes, a guide number of 12 (ISO 100·m), an illumination angle that covers the angle of view of a wide 16mm (24mm eq) lens, and a maximum synchronization speed of 1/250 sec. A manual control mode allows you to regulate flash brightness regardless of metered exposure values, and a synchro terminal enables the use of high-power external flash units and multi-flash studio systems.

Drive mode

User-friendly icons make it easy to switch between single-shot, continuous, bracketed and self-timer shooting. Just select the drive mode, along with selectable parameters (single-shot advance, continuous advance at up to 8 or 3 fps, self-timer shooting with 2 or 10-second delay, and bracketed shooting for exposure, white balance or DRO). Then start shooting. Even the 8 fps continuous shooting speed of the standard continuous advance drive mode (up to 12 fps in Continuous Priority AE mode) is the top of its class.



HDMI® terminal

An HDMI terminal is built within the α77, making it easy to connect the camera directly with an HDTV. Enjoy stunning big-screen viewing of your photos and HD movies with high-definition image quality and high-resolution audio, as well as convenient camera playback using the television's remote control if the connected unit is a BRAVIA® TV supporting BRAVIA Sync and PhotoTV HD.

HDMI

Bundled software

The α77 includes software for intuitive photo editing, file management and more on your personal computer. PlayMemories Home keeps your images conveniently organized by folder, rank and title, while also providing advanced features like movie editing and face search. Image Data Converter software allows quick viewing, editing and conversion of full-resolution RAW image files, including expert adjustment of exposure, white balance and tonal curves, as well as enhanced dynamic-range optimization and vignetting compensation.

* Image and video files are compatible with iMovie® '09 or later on Mac. PlayMemories Home software not compatible with Mac OS® X.

Image Data Converter

A powerful new program for fast RAW file conversion, image adjustment and library management with convenient new functions like ratings and filtering.

PlayMemories Home

The perfect tool for day-to-day image downloading, viewing, and editing tasks.

PlayMemories Home

BRAVIA Sync and PhotoTV HD

Photos look spectacular on a BRAVIA® HDTV. Thanks to optimized Photo TV HD technology, every detail and color gradation is displayed with big-screen impact and amazing fidelity. Simply connect the camera and BRAVIA HDTV via HDMI cable to automatically activate photo playback mode. You can then use the BRAVIA remote control, courtesy of BRAVIA Sync technology, to control camera playback and display photos stored in your α77 at full HD resolution (1920 x 1080).

PhotoTV HD

Memory Stick Duo™ media / SD card slot

The media compartment provides a multi-type slot for standard memory cards, including Memory Stick PRO Duo and SD memory cards. Sony memory cards undergo rigorous testing and are recommended for their outstanding performance during HD movie recording, continuous shooting and high-speed file transfer.

PlayMemories™ Studio for photo and movie playback and editing on PS3™ systems

It's easy to watch and edit your photos and movies on a PlayStation®3 system. PlayMemories Studio software lets you view, organize, scroll and zoom regular photos, panoramic images and 3D images[1], and you can even play AVCHD movies and search through footage and edit. Thanks to the power of PS3 system, you'll find the content you seek with utmost speed and operational ease.

1 Requires 3D HDTV, HDMI cable (at least 10.2 Gbps) and 3D glasses sold separately.

PlayMemories

PlayMemories Studio

BRAVIA

BRAVIA HDTV

PlayStation®3

Refreshing refinement in every detail

VG-C77AM vertical grip (optional)

1 Preview button
2 Front control dial
3 Remote sensor
4 AF illuminator/Self-timer
5 Lens contacts
6 Built-in flash
7 Mounting index
8 Lens release button
9 Focus mode dial
10 (Playback) button
11 LCD monitor
12 MENU button
13 Viewfinder
14 Eyepiece sensors
15 Diopter-adjustment dial
16 MOVIE button
17 For shooting: AEL (AE lock) button/SLOW SYNC button
18 For shooting: AF/MF (Auto focus/manual focus) button
19 Multi-selector
20 Rear control dial
21 DISP (Display) button
22 For shooting: Fn (Function) button
23 (Smart teleconverter) button/ Focus Magnifier button
24 (In-Camera Guide) button For viewing: (Delete) button
25 Mode dial
26 Auto-lock Accessory shoe
27 Microphone
28 FINDER/LCD button
29 (Drive) button
30 WB (White balance) button
31 (Exposure) button
32 Power switch
33 Shutter button
34 ISO button
35 Display panel illumination button
36 Display panel
37 (Flash pop-up) button
38 DC IN terminal
39 REMOTE terminal/(Flash sync) terminal
40 Microphone jack
41 HDMI terminal/USB terminal
42 Battery insertion slot
43 Memory card insertion slot
44 Vertical Control On/Off switch

Number of recordable frames for single media
(Memory Stick PRO Duo, Image size L 24M, aspect ratio 3:2)

	2G	4G	8G	16G	32G
Standard	335	680	1350	2750	5500
Fine	205	410	830	1650	3300
Extra Fine	100	200	405	820	1600
RAW & JPEG	54	105	220	440	880
RAW	74	145	300	600	1200

Movie recording time for single media
(recording times are approximate)

		2GB	4GB	8GB	16GB	32GB
AVCHD™	60i 24M (FX) (NTSC)	0:10	0:20	0:40	1:30	3:00
AVCHD	60p 28M (PS) (NTSC)	0:09	0:15	0:35	1:15	2:30
AVCHD	24p 24M (FX) (NTSC)	0:10	0:20	0:40	1:30	3:00
MP4	1440×1080 12M	0:20	0:40	1:20	2:45	5:30

- Recommended memory card for movie recording: Memory Stick PRO Duo (Mark2), Memory Stick PRO-HG Duo, SD / SDHC / SDXC memory card (Class 4 or more)
- The size of a movie file is limited to approx. 2GB.

The precision to empower your creativity

APS-C

DT 16-50mm F2.8 SSM (SAL1650)

This large-aperture zoom lens is available with the α77 kit (SLT-α77VQ), providing both high performance and a practical focal range. Highlights include a bright F2.8 aperture at all focal length settings from 16mm wide angle to 50mm telephoto, Super Sonic Motor (SSM) for smooth and quiet autofocusing, a circular aperture for beautiful background blur and resistance against dust and moisture.

Zoom lenses

High-performance Sony α zoom lenses are available in wide-ranging focal lengths that provide outstanding flexibility in composing shots. Compact and lightweight, they offer professional-quality optics that maintain high image quality at all focal lengths, contribute to fast response by minimizing the need for lens changes, and expand your range of shooting opportunities.

APS-C

DT 11-18mm F4.5-5.6 (SAL1118)

APS-C

DT 16-105mm F3.5-5.6 (SAL16105)

APS-C

DT 18-55mm F3.5-5.6 SAM (SAL1855)

APS-C NEW

DT 18–135mm F3.5–5.6 SAM (SAL18135)

APS-C

DT 18-200mm F3.5-6.3 (SAL18200)

APS-C

DT 18–250mm F3.5–6.3 (SAL18250)

28-75mm F2.8 SAM (SAL2875)

APS-C

DT 55-200mm F4-5.6 SAM (SAL55200-2)

APS-C NEW

DT 55-300mm F4.5-5.6 SAM (SAL55300)

APS-C

Designed specifically for use with cameras that have an APS-C type image sensor

Fixed focal length lenses

Sony α fixed focal length lenses are precision-crafted for optimal performance at specific focal lengths. Offering performance a cut above lenses with wider focal ranges, they deliver a consistent and intuitive shooting experience and are available in fisheye, portrait, macro, telephoto and other specialized models.

16mm F2.8 Fisheye (SAL16F28)

20mm F2.8 (SAL20F28)

APS-C

DT 30mm F2.8 Macro SAM (SAL30M28)

APS-C

DT 35mm F1.8 SAM (SAL35F18)

50mm F1.4 (SAL50F14)

APS-C

DT 50mm F1.8 SAM (SAL50mmF18)

50mm F2.8 Macro (SAL50M28)

85mm F2.8 SAM (SAL85F28)

100mm F2.8 Macro (SAL100M28)

135mm F2.8 [T4.5] STF (SAL135F28)

Vario-Sonnar T* DT 16-80mm F3.5-4.5 ZA (SAL1680Z)

ZEISS APS-C

An excellent single-lens solution covering the most commonly used focal-length range, from wide-angle to medium telephoto. This lens exhibits excellent sharpness and contrast, delivering outstanding performance for interiors, portraits, landscapes and casual snaps.

Distagon T* 24mm F2 ZA SSM (SAL24F20Z)

ZEISS

The moderately wide-angle focal length makes this a good "normal" lens for photographers who want a slightly expanded field-of-view. Excellent in low-light situations thanks to a maximum aperture of F2, this lens also has a minimum focusing distance of only 7.5" (19 cm).

70-400mm F4-5.6 G SSM (SAL70400G)

G

This professional super telephoto zoom lens offers all-around exceptional performance, including razor-sharp focusing through an ultra-wide focal range. A rotating tripod mount collar is supplied for use with a tripod, handy at extended focal lengths.

G™ Lenses

Sony's highest quality professional lenses are at the top of their class, delivering exceptional in-focus image quality and beautiful defocusing courtesy of advanced aspherical and ED glass elements as well as renowned Sony quality assurance technology.

35mm F1.4 G
(SAL35F14G)

300mm F2.8 G SSM NEW
(SAL300F28G2)

500mm F4.0 G SSM NEW
(SAL500F40G)

70-200mm F2.8 G SSM
(SAL70200G)

70-300mm F4.5-5.6 G SSM
(SAL70300G)

Carl Zeiss® lenses

ZEISS

Developed jointly by Sony and the renowned optical manufacturer Carl Zeiss, these superb AF-capable lenses feature Carl Zeiss optical formulas and coatings and are designed for professional photographers seeking utmost image quality.

Planar T* 85mm F1.4 ZA
(SAL85F14Z)

Sonnar T* 135mm F1.8 ZA
(SAL135F18Z)

Vario-Sonnar T* 16-35mm F2.8 ZA SSM
(SAL1635Z)

Vario-Sonnar T* 24-70mm F2.8 ZA SSM
(SAL2470Z)

Teleconverters

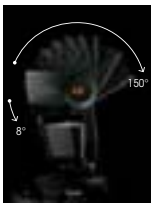
Teleconverters are a great way to extend your telephoto range in the field without adding much weight or bulk to your kit. They give you maximum reach with minimum effort.

1.4x Teleconverter
(SAL14TC)

2x Teleconverter
(SAL20TC)

Compatible lenses: SAL70200G (AF and MF modes), SAL300F28G (AF and MF modes), SAL70400G (MF mode only) and SAL135F28 (MF mode only).

Advanced accessories for specialized needs



Auto-lock Accessory Shoe

Flash

HVL-F43AM

This large-capacity flash unit features Sony's Quick Shift Bounce design, which enables wide-ranging angle adjustment and the same lighting whether shooting in the landscape or portrait position.

- Guide number of 43 (at 105mm, ISO 100·m)
- Compatible with Sony's Wireless Ratio Control
- Effective dust and moisture resistance
- Fast five-second recharge time
- Built-in wide panel and bounce sheet

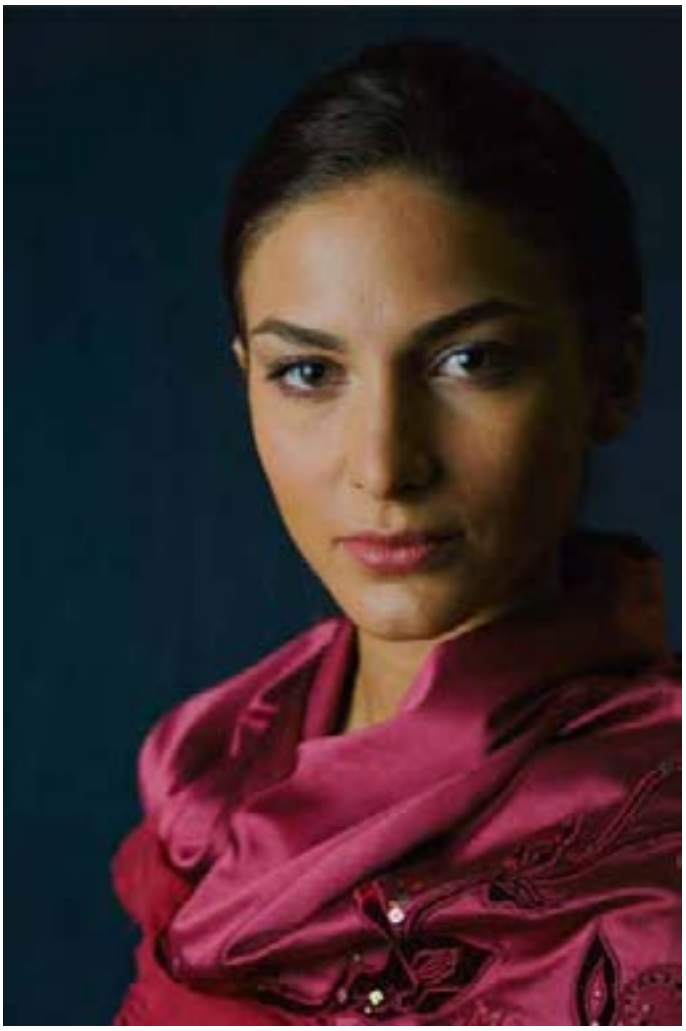
Multi Interface Shoe

NEW Flash

HVL-F60M

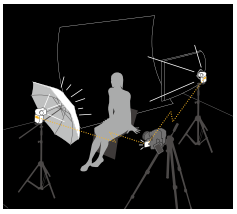
The high-end HVL-F60M provides the flexibility of Sony's Quick Shift Bounce system and wireless control for up to three groups of flashes with luminosity control for each group.

- Guide number of 60 (105mm, ISO 100-m)
- Built-in video light
- Compatible with Sony's Wireless Ratio Control
- Built-in wide panel and bounce sheet
- Supplied Multi-Interface to Auto-lock shoe adapter



Multi-flash support

Built-in flash



Wireless multi-flash with flash ratio control

Give your photos a professional-studio look by using multiple flash units. α77's multi-flash support makes this easy to accomplish, either wirelessly using compatible α external flash units or wired with Multi-Flash Cable FA-MC1AM.

Vertical Grip

VG-C77AM

InfoLITHIUM M SERIES

Vertical-format shooting becomes naturally comfortable with this dedicated grip, which includes a shutter button and other essential controls. The grip can also house one or two Rechargeable Battery Packs (NP-FM500H, sold separately) for vastly increased battery life. Dust and moisture resistance is the same high level as the camera body.

Auto-lock Accessory Shoe Accessory shoe

Clip-on LCD Monitor

CLM-V55

Clip this 5-inch WVGA LCD monitor atop the camera for large-screen viewing and easier, more accurate manual focusing, thanks to a sunshade and pixel magnification.

- Lightweight 8.9 oz. body (250 g) (approx. without battery)
- Compact (W x H x D): 5 1/8 x 3 1/2 x 13/16 in. (129 x 88.5 x 20 mm) (excluding projecting parts)
- Battery-powered / Power supplied via AC adapter
- Battery (NP-FM500H) and AC Adaptor (AC-PW10AM) are optional.
- Tilts fore and aft up to 90° and swivels left and right up to 180° (with supplied shoe adaptor)

Auto-lock Accessory Shoe

Stereo Microphone

ECM-ALST1

Auto-lock Accessory Shoe Accessory shoe

Shotgun Microphone

ECM-CG50

Soft Carrying Case

LCS-SC21/LCS-SC8

Dimensions for LCS-SC21 (W x H x D): Approx. 14 5/8 x 10 1/8 x 9 1/2 in. (370 x 255 x 240 mm)
Dimensions for LCS-SC8 (W x H x D): Approx. 10 3/4 x 9 1/2 x 7 7/8 in. (270 x 240 x 200 mm)

Back pack

LCS-BP2

Dimensions (W x H x D): Approx. 8 3/8 x 15 3/4 x 6 in. (210 x 400 x 150mm)

Accessories System Chart

Flash/Flash Accessories

Flash
HVL-F60M*

Flash
HVL-F43AM

Flash
HVL-F20AM

Ring Light
HVL-RL1*

Macro Twin Flash Kit
HVL-MT24AM

Macro Light Adaptor
FA-MA1AM

External Battery Adaptor for Flash
FA-EB1AM

Off-camera Shoe for Flash
FA-CS1AM

Triple Connector for Flash
FA-TC1AM

Multi Flash Cable
FA-MC1AM

Off-camera Cable for Flash
FA-CC1AM

Extension Cable for Flash
FA-EC1AM

Sync Terminal Adaptor
FA-ST1AM

Hot Shoe Adaptor
FA-HS1AM

*HVL-F60M and HVL-RL1 includes supplied ADP-AMA shoe adaptor

Battery/Charger

Rechargeable battery Pack
NP-FM500H

AC Adaptor
AC-PW10AM

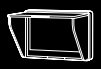
Battery Charger
BC-VM10

Memory cards

Memory stick PRO-HG Duo "HX" / Memory Stick PRO Duo Mark 2

SD Memory Card

Microphone / Monitor

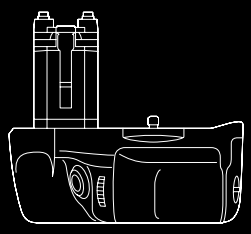

Clip-on LCD Monitor
CLM-V55

Shotgun Microphone
ECM-CG50

Bracket
VCT-55LH

Stereo Microphone
ECM-ALST1

Vertical Grip
VG-C77AM



Finder Accessories

Angle Finder
FDA-A1AM

Eyepiece Cup
FDA-EP12

Lens Accessories

Circular PL Filters
VF-49CPAM/ 55CPAM / 62CPAM / 67CPAM/72CPAM / 77CPAM

ND Filters [8x]
VF-49NDAM / 55NDAM / 62NDAM / 67NDAM/72NDAM / 77NDAM

MC Protectors
VF-49MPAM / 55MPAM / 62MPAM / 67MPAM/72MPAM / 77MPAM

Front Lens Cap

Rear Lens Cap
ALC-R55

Lens Hood

Shooting Accessories

LCD Protect Semi Hard Sheet
PCK-LM3AM

Body Cap
ALC-B55

LCD Protect Sheet
PCK-LS9AM

Remote Commander (Still Image Only)
RM-L1AM

Remote Commander
RMT-DSLR1

Shoe Cap
FA-SHC1AM

HDMI Cable

HDMI Cable
DLC-HEM15/20/30

Case & straps

Grip Belt
STP-GB1AM

Shoulder Strap
STP-XS3

Soft Carrying Case
LCS-AMB

Soft Carrying Case
LCS-AMSC30

Soft Carrying Case
LCS-SC21

Soft Carrying Case
LCS-SC8

Soft Carrying Case
LCS-U30/U20

Back Pack
LCS-BP2

Main specifications of α77

Type		
Camera type		Interchangeable-lens digital camera with built-in flash
Lens compatibility		
Lens compatibility		Sony A-mount lenses, operation with Minolta/Konica Minolta lenses confirmed
Image sensor		
Type		APS-C size (23.5 x 15.6 mm), *Exmor* APS HD CMOS sensor with primary color filters
Number of pixels (effective)		Approx. 24.3 megapixels
Number of pixels (total)		Approx. 24.7 megapixels
Image sensor aspect ratio		3:2
Anti-dust system		Charge protection coating on low-pass filter and Image Sensor-Shift mechanism
Recording system (still image)		
Recording format		JPEG (DCF Ver. 2.0, Exif Ver. 2.3, MPF baseline compliant), RAW (Sony ARW 2.3 format), 3D MPO (MPF Extended compliant)
Image size (pixels)	3:2 aspect ratio	L: 6000 x 4000 (24M), M: 4240 x 2832 (12M), S: 3008 x 2000 (6M)
	16:9 aspect ratio	L: 6000 x 3376 (20M), M: 4240 x 2400 (10M), S: 3008 x 1688 (5.1M)
	Sweep Panorama	Wide: horizontal 12,416 x 1,856 (23M), vertical 5,536 x 2,160 (12M), Standard: horizontal 8,192 x 1,856 (15M), vertical 3,872 x 2,160 (8.4M)
	3D Sweep Panorama	Wide: 7152 x 1080 (7.7M), Standard: 4912 x 1080 (5.3M), 16:9: 1920 x 1080 (2.1M)
Image quality modes		RAW, RAW & JPEG, JPEG Extra fine, JPEG Fine, JPEG Standard
Picture Effect		11 modes (15 effects): Posterization (Color, B/W), Pop Color, Retro Photo, Partial Color (R,G,B,Y), High Contrast Monochrome, Toy Camera, Soft High-key, Soft Focus, HDR Painting, Rich-tone Monochrome, Miniature
Creative Style		Standard, Vivid, Neutral, Clear, Deep, Light, Portrait, Landscape, Sunset, Night Scene, Autumn leaves, Black & White, Sepia [Contrast (-3 to +3 steps), Saturation (-3 to +3 steps), Sharpness (-3 to +3 steps)]
Dynamic range functions		Off, Dynamic Range Optimizer: Auto/Level, Auto High Dynamic Range: Off, Auto Exposure Difference, Exposure Difference Level (1-6 EV, 1.0 EV step)
Color space		sRGB, Adobe RGB
Recording system (movie)		
Recording format		AVCHD 2.0 (Progressive) / MP4
Video compression		MPEG-4 AVC (H.264)
Audio recording format		Dolby® Digital (AC-3) / MPEG-4 AAC-LC
Image size (pixels)	NTSC	AVCHD: 1920 x 1080 (60p/28Mbps/PS, 60i/24Mbps/FX, 60i/17Mbps/FH, 24p/24Mbps/FX, 24p/17Mbps/FH)
		MP4: 1440 x 1080 (30fps/12Mbps), VGA: 640 x 480 (30fps/3Mbps)
Media		
Media		Memory Stick PRO Duo™, Memory Stick PRO-HG Duo™, SD memory card, SDHC memory card (UHS-I compliant), SDXC memory card (UHS-I compliant)
Slot		Memory Stick Duo™ / SD memory card
Noise reduction		
Noise reduction		Long exposure NR: On/Off, available at shutter speeds longer than 1 sec.
		High ISO NR: High/Normal/Low
Multi frame noise reduction		Auto/ISO100 to 25600
White balance		
Modes		Auto WB, Daylight, Shade, Cloudy, Incandescent, Fluorescent (Warm white/Cool white/Day white/Daylight), Flash, C.Temp 2500 to 9900K, C.Filter G7 to M7, 15-step, Custom, AWB micro adjustment
Two-axis fine adjustment		Available in all modes <G7 to M7 (15 steps), A7 to B7 (15 steps)>
Bracketing		3 frames, H/L selectable
Focus system		
Type		TTL Phase-detection AF
Focus sensor		CCD line sensors
Focus point		19 points (11 points cross type)
Sensitivity range		EV -1 to 18 (at ISO100 equivalent, with F2.8 lens attached)
Focus mode		Autofocus, Direct Manual Focus, Manual focus
AF mode		Single-shot AF (AF-S), Continuous AF (AF-C), Automatic AF (AF-A) selectable
Focus area		Wide (auto, 19 points) / Zone / Spot / Local
Other features		Object Tracking Focus, Predictive control (AF-A, AF-C), Focus lock, Eye-start AF, AF illuminator (built-in LED type)
Exposure control		
Metering type		1200-zone evaluative metering
Metering sensor		Exmor™ APS HD CMOS sensor
Metering sensitivity		EV-2 to EV17 (at ISO100 equivalent with F1.4 lens attached)
Modes		Multi segment, Spot, Center weighted
Exposure modes		AUTO, AUTO Advanced (AUTO+), Scene Selection, Sweep Panorama, 3D Sweep Panorama, Continuous Advance Priority AE, Movie, Programmed AE (P), Aperture priority (A), Shutter-speed priority (S), Manual (M)
Scene Selection		Portrait, Landscape, Macro, Sports Action, Sunset, Night Portrait, Night View, Hand-held Twilight
Exposure compensation		±5.0 EV (1/3 EV, 1/2 EV steps selectable)
AE bracketing		Bracket: Cont., Bracket: Single, with 1/3 EV, 1/2 EV, 2/3 EV, 2.0 EV, 3.0 EV increments, 3 or bracket can be offset ±5EV with Exposure Compensation.
AE lock		Available with AE lock button. AE is also locked when focus is locked in multi-segment metering mode.
ISO sensitivity (Recommended Exposure Index)		ISO 100-16000 equivalent (expandable to ISO 50), AUTO (ISO 100-12800 selectable with upper and lower limit)
Viewfinder		
		XGA OLED, 0.5" (1.3 cm) electronic viewfinder
Total number of dots (approx.)		2,359,296 dots
Brightness control		Auto / Manual (3 steps between -1 and +1)
Field coverage		100%
Magnification		Approx. 1.09x (with 50 mm lens at infinity, -1 m^{-1})
Diopter adjustment		-4.0 ~ +3.0 m^{-1}
Eye point		Approx. 27 mm from the eyepiece lens, 22 mm from the eyepiece frame at -1 diopter (CIPA standard)
Display		Histogram Display, Graphic Display, Digital Level Gauge, Shooting Data Display, SimpleDisplay, Grid Line,
Real-time image adjustment display		Exposure Comp, White Balance, Creative Style

LCD monitor	
Type	3.0" Xtra Fine LCD™ TFT display
Total number of dots (approx.)	921,600 dots
Brightness control	Auto/Manual (5 steps between -2 and +2)
Field coverage	100%
Adjustable angle	Tilt angle: 150 degrees upward and 180 degrees downward. Rotation angle: 180 degrees clockwise and 90 degrees counterclockwise.
Display Selector (finder/LCD)	Auto/Manual
Display	Histogram Display, Graphic Display, Digital Level Gauge, Shooting Data Display, Simple Display, Shooting Information For Viewfinder, Grid Line.
Real-time image adjustment display	Exposure Comp., White Balance, Creative Style
Focus Magnifier	5.9x, 11.7x
Peaking MF	Yes (Level: High/Mid/Low/Off, Color: White/Red/Yellow)
Display panel	
	Setting mode indicator LCD
Smart Teleconverter (digital zoom without image deterioration)	
	Approx. 1.4 x / 2x
Shutter	
Type	Electronically controlled, vertical-traverse, focal-plane type
Shutter speed	1/8000 to 30 sec., Bulb
Flash sync. speed	1/250 sec.
Electronic front curtain shutter	Yes, On/Off
SteadyShot® (image stabilization)	
System	For still images: Image Sensor-Shift mechanism, For movies: Electronic
SteadyShot capability	For still images: Approx. 2.5-4.5 EV decrease in shutter speed (varies according to shooting conditions and lens used)
Flash	
Type	Auto popup, built-in
Guide No.	12 (in meters at ISO 100)
Coverage	Field of view coverage up to 16mm (24mm eq in 35mm format)
Control	ADI flash / Pre-flash TTL / Manual flash
Compensation	±3.0 EV (switchable between 1/3 and 1/2 EV steps)
Bracketing	0.3/0.5/0.7/2.0/3.0 EV steps, 3 or 5 frames (2.0/3.0 EV: only 3 frames) selectable
Modes	Flash off, Autoflash, Fill-flash, Rear sync., Slow Sync., Red-eye reduction (On/Off)
Recycling time	Approx. 3 sec.
External flash	Sony α System Flash compatible with auto-lock accessory shoe
Wireless control	Yes (wireless flash with lighting ratio control)
Drive	
Drive modes	Single Shot, Continuous (Hi/Lo) Self-timer (10/2 sec. delay selectable), Bracket: Cont., Bracket: Single, White Balance bracket, DRO bracket, Remote Control (with optional RM-DSLR1)
Continuous shooting speed[1]	Hi: Maximum 8 frames per second / Lo: Maximum 3 frames per second
	Continuous Advance Priority AE: Maximum 12 images per second
Max. continuous shots	Continuous Advance Priority AE mode: Extra fine: 13 images, Fine: 17 images, Standard: 17 images, RAW & JPEG: 11 images, RAW: 13 images
	Continuous shooting[2]: Extra fine: 13 images, Fine: 18 images, Standard: 18 images, RAW & JPEG: 11 images, RAW: 13 images
Playback	
Modes	Single (with or without shooting information), RGB histogram and highlight/shadow warning, 4/9-frame index view, Enlarged display mode (L: 13.6x, M: 9.9x, S: 6.8x), Auto Review (10/5/2 sec., Off), Image orientation (On/Off) Slideshow, Panorama scrolling, Folder selection (Still), Forward/Rewind (movie), Delete, Protect
Other features	
	Face detection (up to 8 faces detectable automatically), Face registration, Face selection, Smile Shutter™ technology (selectable from 3 steps), In-Camera Guide, Custom Function, GPS
Interface	
PC interface	Hi-speed USB (USB 2.0): Mass-storage, MTP
HD output	HDMI mini connector (Type-C), BRAVIA Sync (link menu), PhotoTV HD
Others	Sync. Terminal, Auto-lock accessory shoe, Microphone jack, DC IN terminal, Remote terminal
Compatible OS (USB connection)	
	Windows XP[3] SP3, Windows Vista[4] SP2, Windows 7 SP1, Mac OS X (10.3-10.6)
Audio	
Microphone	Built-in stereo microphone or ECM-ALST1 / ECM-CG50 (sold separately)
Speaker	Built-in, monaural, volume settings in 8 steps
Print	
Compatible standards	Exif Print, Print Image Matching III, DPOF setting
Custom function	
Type	Custom key settings
Memory Function	Yes (3 sets)
Power	
Battery	Rechargeable battery pack NP-FM500H
Still images	Approx. up to 470 shots with viewfinder and up to 530 shots with LCD monitor (CIPA standard)
Movies	Approx. up to 185 min. with viewfinder and up to 185 min. with LCD monitor[5]
External power	AC Adaptor AC-PW10AM (optional)
Weight	
With battery and Memory Stick PRO Duo	Approx. 1 lb 9.8 oz (732 g)
Body only	Approx. 1 lb 7.0 oz (653 g)
Dimensions	
W x H x D (excluding protrusions)	Approx. 5 3/4 x 4 1/8 x 3 1/4 in. (142.6 x 104.0 x 80.9 mm)
Body material	
Body material	Magnesium alloy and high-grade plastic exterior
Operating Temperature	
Range	32°F to 104°F (0°C to 40°C)

Specifications and features are based on information available at the time of printing and are subject to change without notice.

1 Speed may vary depending on shooting conditions and memory card in use.
2 When drive mode is set to continuous shooting "Hi" mode.
3 64-bit and Starter Editions are not supported.
4 Starter Edition is not supported.
5 Records in 29 minute segments.

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System requirements of bundled software

	Image Data Converter Ver.4		PlayMemories™ Home
OS[6]	Microsoft Windows®	Macintosh®	Microsoft Windows®
	Windows® XP[7] SP3, Windows Vista® SP2, Windows 7 SP1	Mac OS® X (10.5, 10.6 Snow Leopard)	Windows® XP[7] SP3, Windows Vista® SP2, Windows 7 SP1
CPU	Pentium® 4 or faster	Intel® Core™ Solo, Core Duo, Core 2 Duo or faster	Pentium III 800 MHz or faster [for playing/editing HD movies: Intel Core Duo 1.66 GHz or faster, Intel Core 2 Duo 1.66 GHz or faster, Intel Core 2 Duo 2.26 GHz or faster (HD FX/HD FH), Intel Core 2 Duo 2.40 GHz or faster (HD PS)]
Memory	1 GB or more is recommended	1 GB or more is recommended	512 MB or more (for playing/editing HD movies: 1 GB or more)

The computer environment must also satisfy the operating requirements of the OS.
6 Must be installed with the above OS at delivery. Proper operation cannot be guaranteed with an upgraded OS environment.
7 64-bit and Starter Editions are not supported. Windows Image Mastering API (IMAPI) Ver. 2.0 or later is required for disc burning function.

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* Screen displays are simulated.
* Simulated effects are used to illustrate some functions.